

Solid Mensuration Problems With Solutions

Solid Mensuration Problems With Solutions Solid mensuration problems with solutions Solid mensuration is a fundamental branch of geometry that deals with the measurement of three-dimensional figures such as cubes, cylinders, cones, spheres, and composite solids. Mastery of solid mensuration is essential for solving real-world problems involving volume, surface area, and other related measurements. In this article, we will explore a variety of challenging solid mensuration problems along with detailed solutions to enhance understanding and application skills.

Basic Concepts in Solid Mensuration Before delving into complex problems, it is important to recall key formulas and concepts:

Common Formulas Cube: Volume: $(V = a^3)$ Surface Area: $(SA = 6a^2)$

Cuboid: Volume: $(V = l \times b \times h)$ Surface Area: $(SA = 2(lb + bh + hl))$

Sphere: Volume: $(V = \frac{4}{3} \pi r^3)$ Surface Area: $(SA = 4 \pi r^2)$

Cylinder: Volume: $(V = \pi r^2 h)$ Surface Area (including top and bottom): $(SA = 2 \pi r (r + h))$

Cone: Volume: $(V = \frac{1}{3} \pi r^2 h)$ Surface Area: $(SA = \pi r (l + r))$ where (l) is the slant height

Understanding these formulas is crucial for approaching problems systematically.

Sample Problems with Solutions Problem 1: Volume and Surface Area of a Cube

Question: A cube has an edge length of 5 cm. Find its volume and surface area. Solution: - Volume $(V = a^3 = 5^3 = 125 \text{ cm}^3)$

- Surface Area $(SA = 6a^2 = 6 \times 5^2 = 6 \times 25 = 150 \text{ cm}^2)$ Answer: The volume is 125 cm^3 , and the surface area is 150 cm^2 .

2 Problem 2: Volume of a Cylinder with a Hollow Section

Question: A cylindrical pipe has an outer radius of 10 cm, an inner radius of 8 cm, and a length of 50 cm. Find the volume of the material used to make the pipe. Solution: - The volume of the entire cylinder (outer) is $(V_{\text{outer}} = \pi r_{\text{outer}}^2 h = \pi \times 10^2 \times 50 = 5000 \pi \text{ cm}^3)$.

- The volume of the hollow part (inner) is $(V_{\text{inner}} = \pi r_{\text{inner}}^2 h = \pi \times 8^2 \times 50 = 3200 \pi \text{ cm}^3)$.

- The material volume is the difference: $(V_{\text{material}} = V_{\text{outer}} - V_{\text{inner}} = (5000 \pi - 3200 \pi) = 1800 \pi \text{ cm}^3)$.

Calculating numerically: $[V_{\text{material}} \approx 1800 \times 3.1416 \approx 5654.87 \text{ cm}^3]$ Answer: Approximately 5654.87 cm^3 of material is used.

Problem 3: Surface Area of a Sphere

Question: Find the surface area of a sphere with a radius of 7 cm. Solution: - Surface Area $(SA = 4 \pi r^2 = 4 \times 3.1416 \times 7^2 = 4 \times 3.1416 \times 49 \approx 4 \times 153.9384 = 615.75 \text{ cm}^2)$.

Answer: The surface area is approximately 615.75 cm^2 .

Problem 4: Volume of a Cone

Question: A conical funnel has a radius of 4 cm and a height of 9 cm. Calculate its volume. Solution: - Volume $(V = \frac{1}{3} \pi r^2 h = \frac{1}{3} \times 3.1416 \times 4^2 \times 9)$

- $(V = \frac{1}{3} \times 3.1416 \times 16 \times 9 = 150.72 \text{ cm}^3)$

$\times 3.1416 \times 16 \times 9 = \frac{1}{3} \times 3.1416 \times 144 \times 9 \approx 339.29 \text{ cm}^3$ Answer: The volume of the cone is approximately 150.80 cm³.

Advanced Problems and Applications Problem 5: Composite Solid – Cylinder and Hemisphere

Question: A solid consists of a cylinder of height 12 cm and radius 3 cm, with a hemisphere of radius 3 cm attached to its top. Find the total volume and surface area of the solid (excluding the base of the hemisphere).

Solution: Step 1: Calculate the volume. - Volume of the cylinder: $V_{\text{cylinder}} = \pi r^2 h = 3.1416 \times 3^2 \times 12 = 3.1416 \times 9 \times 12 = 3.1416 \times 108 \approx 339.29 \text{ cm}^3$

- Volume of the hemisphere: $V_{\text{hemisphere}} = \frac{1}{2} \times \frac{4}{3} \pi r^3 = \frac{2}{3} \pi r^3 = \frac{2}{3} \times 3.1416 \times 27 \approx 2 \times 28.274 \approx 56.55 \text{ cm}^3$

- Total volume: $V_{\text{total}} \approx 339.29 + 56.55 = 395.84 \text{ cm}^3$

Step 2: Calculate the surface area (excluding the base of the hemisphere).

- Lateral surface area of the cylinder: $SA_{\text{cylinder}} = 2\pi r h = 2 \times 3.1416 \times 3 \times 12 \approx 2 \times 3.1416 \times 36 \approx 226.19 \text{ cm}^2$

- Surface area of the hemisphere (excluding base): $SA_{\text{hemisphere}} = 2 \pi r^2 = 2 \times 3.1416 \times 9 \approx 56.55 \text{ cm}^2$

- The base of the hemisphere is not exposed (it's attached to the cylinder), so we exclude it.

- Total surface area: $SA_{\text{total}} \approx 226.19 + 56.55 = 282.74 \text{ cm}^2$ Answer: The total volume is approximately 395.84 cm³, and the total surface area (excluding the base of the hemisphere) is approximately 282.74 cm².

Problem 6: Frustum of a Cone

Question: A frustum of a cone has a lower radius of 10 m, an upper radius of 6 m, and a slant height of 8 m. Find the volume and total surface area of the frustum. **Solution:** Step 1: Volume of the frustum: $V = \frac{1}{3} \pi h (r_1^2 + r_2^2 + r_1 r_2)$

But first, we need the height (h). Using Pythagoras theorem: $l^2 = h^2 + (r_1 - r_2)^2 \Rightarrow h = \sqrt{l^2 - (r_1 - r_2)^2} = \sqrt{8^2 - (10 - 6)^2} = \sqrt{64 - 16} = \sqrt{48} \approx 6.93 \text{ m}$

Now, compute volume: $V = \frac{1}{3} \times 3.1416 \times 6.93 \times (10^2 + 6^2 + 10 \times 6) \approx 3.1416 \times 6.93 \times (100 + 36 + 60) \approx 3.1416 \times 6.93 \times 196 \approx 4200 \text{ m}^3$

Question Answer How do you find the volume of a cone inscribed inside a sphere?

To find the volume of a cone inscribed in a sphere, first determine the dimensions of the cone (height and radius) based on the sphere's radius and the position of the cone's vertices. Use the relation between the cone's height, base radius, and the sphere's radius, then apply the volume formula $V = (1/3)\pi r^2 h$. Solving the geometric relations yields the dimensions needed for the volume calculation.

What is the formula for the lateral surface area of a frustum of a cone, and how is it derived? The lateral surface area (LSA) of a frustum of a cone is given by $LSA = \pi (r + R) l$, where r and R are the radii of the two circular ends, and l is the slant height. It is derived by summing the lateral areas of the two conical sections that form the frustum, considering the slant height as the generatrix of the cone segments.

How do you calculate the surface area of a sphere when a segment is cut off by a plane? To calculate the surface area of a spherical segment, identify the radius of the sphere and the height of the segment. The total

surface area of a spherical segment is given by $SA = 2\pi r h$, where r is the radius of the sphere and h is the height of the segment. This formula is derived by considering the segment as a portion of a cylinder with radius r and height h.

How do you calculate the volume of a spherical cap? The volume of a spherical cap of height h on a sphere of radius r is given by $V = \frac{\pi h^2}{3} (3r - h)$. This formula is derived by integrating the area of circular cross-sections of the cap.

surface area of the segment includes the curved surface area, which can be found using the formula for the area of a spherical cap: $2\pi Rh$, where R is the sphere's radius and h is the cap height. Add any base areas if the segment includes a flat surface to get the total surface area. What is the method to find the volume of a tetrahedron with given edge lengths? The volume of a regular tetrahedron with edge length a can be found using the formula $V = \frac{a^3}{6\sqrt{2}}$. For irregular tetrahedra, use the Cayley-Menger determinant or coordinate geometry by assigning coordinates to vertices and applying the volume formula $V = \frac{1}{6}|\det(\overrightarrow{AB}, \overrightarrow{AC}, \overrightarrow{AD})|$, where vectors $\overrightarrow{AB}, \overrightarrow{AC}, \overrightarrow{AD}$ are position vectors of points relative to one vertex.

4 How can the surface area of a cylinder be calculated when it is cut diagonally at an angle? When a cylinder is cut diagonally, the surface area includes the lateral surface and the area of the inclined cut. The lateral surface area remains $2\pi rh$, but the inclined cut's area can be found by projecting the cut onto the base plane or using geometric methods involving the slant height and the angle of cut. Calculating the area of the inclined surface typically involves integrating or applying trigonometric relations based on the cut angle.

Solid Mensuration Problems with Solutions: A Comprehensive Guide Solid mensuration is an integral part of geometry that deals with the measurement of three-dimensional (3D) objects such as cylinders, cones, spheres, prisms, and pyramids. Mastery over this topic not only enhances understanding of spatial relationships but also plays a crucial role in various competitive exams, engineering applications, and real-world problem-solving scenarios. This detailed review explores complex solid mensuration problems, step-by-step solutions, and strategies to approach these challenges effectively.

--- **Understanding the Fundamentals of Solid Mensuration** Before diving into advanced problems, it's essential to establish a solid foundation of the basic concepts, formulas, and properties related to 3D figures.

Key Geometric Solids and Their Formulas

- Cylinder - Surface Area (SA): $2\pi r(h + r)$ - Volume (V): $\pi r^2 h$
- Cone - Surface Area (SA): $\pi r(l + r)$, where l is the slant height - Volume (V): $\frac{1}{3}\pi r^2 h$
- Sphere - Surface Area (SA): $4\pi r^2$ - Volume (V): $\frac{4}{3}\pi r^3$
- Cube - Surface Area (SA): $6a^2$ - Volume (V): a^3
- Rectangular Prism (Cuboid) - Surface Area: $2(lb + bh + hl)$ - Volume: $l \times b \times h$

Key Concepts in Mensuration

- Lateral Surface Area (LSA): The area of the sides of a solid, excluding the base(s).
- Total Surface Area (TSA): Sum of lateral surface area and area of the base(s).
- Slant Height: The diagonal side of a cone or a pyramid's face.
- Axis of Symmetry: Central line passing through the solid's center, especially relevant in cylinders and cones.
- Inscribed and Circumscribed Figures: Circles or polygons inscribed within or circumscribed around solids, often forming the basis of advanced problems.

--- **Strategies for Solving Solid Mensuration Problems** Effective problem-solving in solid mensuration hinges on understanding the problem context and applying the right formulas systematically.

Step-by-step approach:

1. Visualize the Figure: Draw a clear diagram, labeling all known and unknown quantities.
2. Solid Mensuration

Problems With Solutions 5 Identify the Type of Solid: Recognize whether it is a cylinder, cone, sphere, or a combination. 3. Understand What Is Given and What Is Needed: Clarify the parameters provided and the quantities to find. 4. Use Appropriate Data: Convert all measurements into consistent units. 5. Apply Relevant Formulas: Use the basic formulas, adjusting for special conditions or composite figures. 6. Break Down Complex Figures: Decompose into simpler solids if needed. 7. Check for Similar Triangles or Symmetry: Use proportionality in similar figures. 8. Verify Units and Final Answer: Ensure the units are consistent and the answer makes sense. --- Common Types of Solid Mensuration Problems with Solutions Below are representative problem types, each explained with detailed solutions.

1. Finding the Volume or Surface Area of a Cylinder or Cone Problem: A cylindrical tank has a height of 12 meters and a radius of 5 meters. Find the total surface area when the tank is open at the top. Solution: - Step 1: Recognize the solid as a cylinder with an open top. - Step 2: Write the known data: - Radius $(r = 5)$ m - Height $(h = 12)$ m - Step 3: Calculate lateral surface area: $[LSA = 2\pi r h = 2 \times \frac{22}{7} \times 5 \times 12 = \frac{44}{7} \times 60 = \frac{2640}{7} \approx 377.14, \text{m}^2]$ - Step 4: Calculate the area of the base (since the top is open): $[\text{Base area} = \pi r^2 = \frac{22}{7} \times 25 = \frac{550}{7} \approx 78.57, \text{m}^2]$ - Step 5: Total surface area: $[TSA = LSA + \text{Base area} \approx 377.14 + 78.57 = 455.71, \text{m}^2]$ Final Answer: Approximately 455.71 m^2 ---

2. Volume of a Cone Inscribed in a Sphere Problem: A sphere has a radius of 10 cm. An inscribed right circular cone has its vertex at the top of the sphere and the base on the sphere's interior. If the height of the cone is 12 cm, find the volume of the cone. Solution: - Step 1: Draw a diagram showing the sphere and inscribed cone. - Step 2: Recognize that the cone is inscribed such that its vertex is at the top point of the sphere. - Step 3: Use the relation between the sphere radius $(R = 10, \text{cm})$ and the cone height $(h = 12, \text{cm})$. Notice that since $(h > R)$, the cone extends beyond the sphere, which is impossible unless the problem indicates the cone is inside the sphere with its base on the interior surface. - Correction: Assume the cone is inscribed with its vertex at the sphere's top and base touching the interior surface. - Step 4: Use the relationship: The distance from the sphere's center to the base of the cone is $(d = R - h')$, where (h') is the height of the cone from the vertex to the base within the sphere. - Step 5: Use Pythagoras in the cross-section: $[r_{\text{base}}^2 + (R - h)^2 = R^2]$ Since the cone is inscribed, the radius of the base of the cone: $[r = \sqrt{R^2 - (R - h)^2} = \sqrt{100 - (10 - 12)^2} = \sqrt{100 - (-2)^2} = \sqrt{100 - 4} = \sqrt{96} \approx 9.8, \text{cm}]$ - Step 6: Volume of the cone: $[V = \frac{1}{3} \pi r^2 h = \frac{1}{3} \times \frac{22}{7} \times (9.8)^2 \times 12]$ $[V \approx \frac{1}{3} \times 3.14 \times 96 \times 12 \approx \frac{1}{3} \times 3.14 \times 1152]$ $[V \approx \frac{1}{3} \times 3620.48 \approx 1206.83, \text{cm}^3]$ Final Answer: Approximately 1206.83 cm^3 ---

3. Surface Area of a Sphere with a Cap Removed Problem: A sphere

of radius 15 cm has a spherical cap removed such that the height of the cap is 4 cm. Find the remaining surface area of the sphere (excluding the flat surface of the cap). Solution: - Step 1: Recall the surface area of a sphere: $[SA_{\text{sphere}} = 4 \pi r^2 = 4 \times \frac{22}{7} \times 15^2 = 4 \times \frac{22}{7} \times 225 = \frac{88}{7} \times 225 \approx 2828.57, \text{cm}^2]$ - Step 2: Find the area of the cap removed: $[\text{Cap area} = 2 \pi r h = 2 \times \frac{22}{7} \times 15 \times 4 = \frac{44}{7} \times 60 = \frac{2640}{7} \approx 377.14, \text{cm}^2]$ Note: The surface area of the cap's curved surface is given by $(2 \pi r h)$. - Step 3: The remaining surface area is the original surface minus the flat base of the cap: $[\text{solid mensuration, volume calculation, surface area, geometric problems, cylinder problems, cone problems, sphere problems, prism problems, problem solutions, mensuration exercises}]$

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